

Entrepreneurship for Engineers (250964)

General Information

School	ETSECCPB
Departments	Departament d'Organització d'Empreses (OE)
Credits	5.0 ECTS
Programs	MÀSTER UNIVERSITARI EN MÈTODES NUMÈRICS EN ENGINYERIA (pla 2012) MÀSTER UNIVERSITARI EN MÈTODES NUMÈRICS EN ENGINYERIA (pla 2012)
Course	2025/26

Main teaching language at each group

- Group 10Q1 English (Q1)

Faculty

Responsible Faculty: Francesc Xavier Belles Ros
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Objectives of Education

What is an entrepreneur and what is his or her importance within the company?

* Identify the mechanisms of organisation and growth in a company and learn to manage its growth. *
Identify the mechanisms of failure in a company or project and establish measures to avoid it.

- * Aspects of business initiative.
- * The structure and presentation of opportunities
- * The resources and structures of finances
- * People and teams
- * How to manage companies in an international level
- * Short and long term management of growth
- * Generation and purchase
- * To keep the flow of ideas within a company, case studies
- * Identification of opportunities and business plans
- * Financial sources and their structuring

Learning Resources:

Total hours of student work

		Hours	Percentage
Supervised Learning	Large group	45.0 h	100.00 %
	Medium group	0.0 h	0.00 %
	Laboratory classes	0.0 h	0.00 %
	Guided Activities	0.0 h	0.00 %
Self Study		80.0 h	

Contents

Areas and functions in business

Introduction. Areas and functions in business

The entrepreneur's personality

The entrepreneur's personality

The business idea. How to spot it.

The business idea. How to spot it.

Elements of business policy

Elements of business policy

Business model. Contents of a business plan.

Business model. Contents of a business plan.
Team work for the creation of a business plan draft

Costs and prices

Costs and prices

Elements of Marketing

Elements of Marketing

Financial accounting

Financial accounting

Corporate finance

Corporate finance

Financial resources

Financial resources

Operations

Operations

Human Resources

Human Resources

Teaching Methodology

The course consists of 1.5 hours per week of classroom activity (large size group).

The 1.5 hours in the large size groups are devoted to theoretical lectures, in which the teacher presents the basic concepts and topics of the subject, shows examples and solves exercises.

The rest of weekly hours devoted to laboratory practice.

Support material in the form of a detailed teaching plan is provided using the virtual campus ATENEA: content, program of learning and assessment activities conducted and literature.

Although most of the sessions will be given in the language indicated, sessions supported by other occasional guest experts may be held in other languages.

Grading Rules

() The evaluation calendar and grading rules will be approved before the start of the course.*

The mark of the course is obtained from the ratings of continuous assessment and their corresponding laboratories and/or classroom computers.

Continuous assessment consist in several activities, both individually and in group, of additive and training characteristics, carried out during the year (both in and out of the classroom).

The teachings of the laboratory grade is the average in such activities.

The evaluation tests consist of a part with questions about concepts associated with the learning objectives of the course with regard to knowledge or understanding, and a part with a set of application exercises.

Test Rules

Failure to perform a laboratory or continuous assessment activity in the scheduled period will result in a mark of zero in that activity.

Bibliography

Basic

- Birley, S.; Muzycka, D. [Mastering enterprise : your single-source guide to becoming an entrepreneur](#). Harlow: Financial Times Prentice Hall, 1997. ISBN 9780273631279.

Complementary

- Bridge, S.; O'Neill, K. [Understanding enterprise : entrepreneurship and small business](#). 4th ed. Palgrave Macmillan, 2013. ISBN 9780230308091.